

B6600S-400, 2-Way, Characterized Control Valve

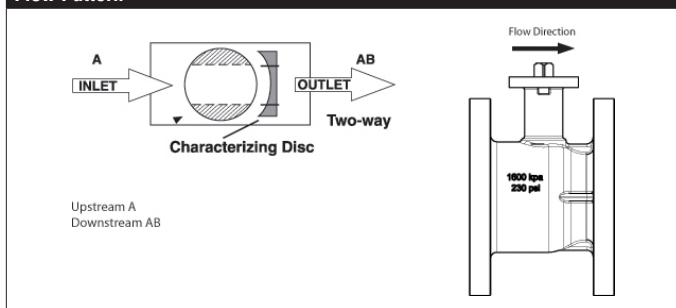
Stainless Steel Ball and Stem



Technical Data

Service	chilled, hot water, up to 60% glycol
Flow Characteristic	equal percentage
Controllable Flow Range	75°
Size [mm]	6" [150]
End Fitting	Pattern to mate with ANSI 125 flange
Body	cast iron - GG25
Ball	stainless steel
Stem	stainless steel
Stem Packing	EPDM (lubricated)
Seat	Teflon® PTFE
Seat O-ring	EPDM (lubricated)
Body Pressure Rating [psi]	ANSI 125, standard class B
ANSI Class	ANSI 125, standard class B
Number of Bolt Holes	8
Media Temperature Range (Water)	0°F to 250°F [-18°C to 120°C]
Max Differential Pressure (Water)	50 psi (345 kPa)
Close-Off Pressure	100 psi
Cv	400
Weight	90.4 lb [41 kg]
Leakage	0% for A to AB
Servicing	maintenance free

Flow Pattern



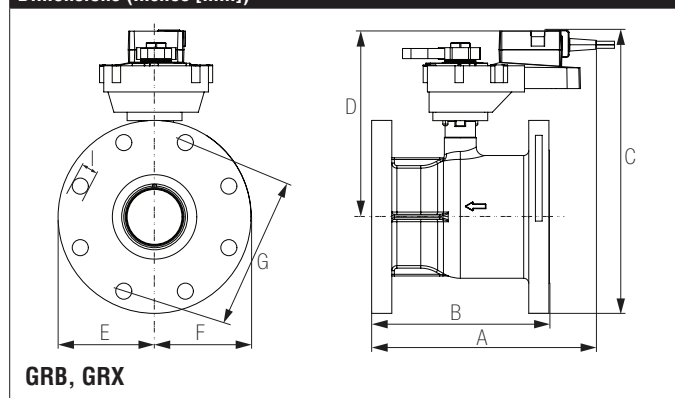
Application

This valve is typically used in air handling units on heating or cooling coils, and fan coil unit heating or cooling coils. Some other common applications include Unit Ventilators, VAV box re-heat coils and bypass loops. This valve is suitable for use in a hydronic system with variable or constant flow.

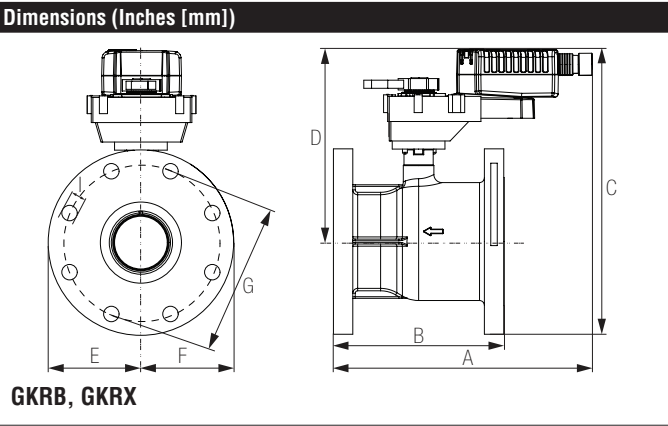
Suitable Actuators

	Non-Spring	Electronic Fail-Safe
B6600S-400	GRB(X)	GKRB(X)

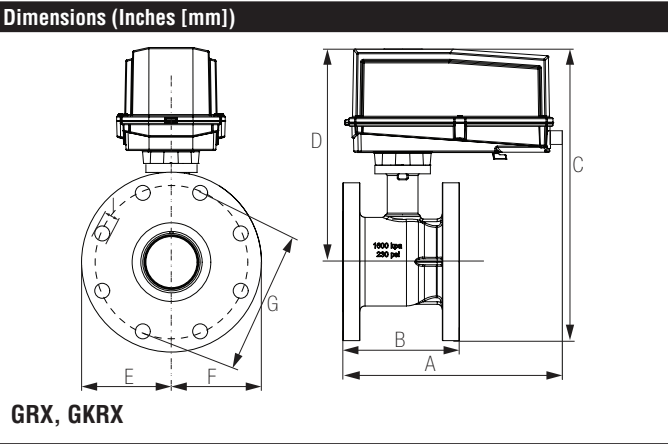
Dimensions (Inches [mm])



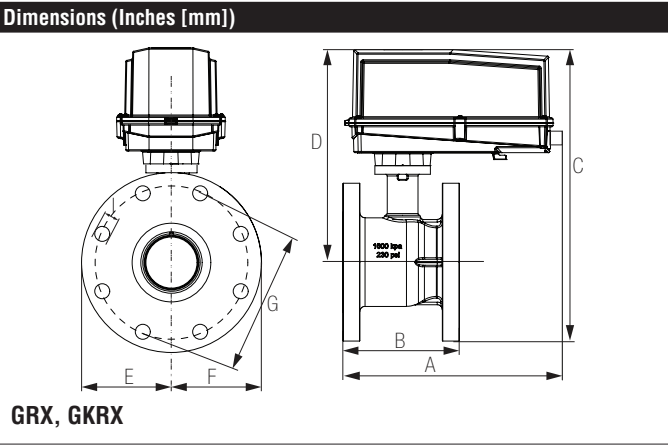
A	B	C	D	E	F	G	I
15.3"	12.4"	15.4"	9.5"	5.5" [140]		9.5"	0.88"
[388]	[315]	[391]	[241]			[241]	[22]



A	B	C	D	E	F	G	I
15.3"	12.4"	15.8"	9.8"	5.5" [140]		9.5"	0.88"
[388]	[315]	[401]	[248]			[241]	[22]



A	B	C	D	E	F	G	I
19"	12.4"	18.49"	9.5"	5.5" [140]		9.5"	0.88"
[483]	[315]	[469.6]	[241]			[241]	[22]



A	B	C	D	E	F	G	I
19"	12.4"	18.49"	9.5"	5.5" [140]		9.5"	0.88"
[483]	[315]	[469.6]	[241]			[241]	[22]

GKRX24-3

On/Off, Floating Point, Electronic Fail-Safe, 24V







Technical Data

Power Supply	24 VAC \pm 20%, 50/60 Hz
Power Consumption Running	12 W
Power Consumption Holding	3 W
Transformer Sizing	21 VA (class 2 power source)
Electrical Connection	3 ft [1 m], 10 ft [3 m] or 16 ft [5 m] 18 GA appliance cables, with 1/2" conduit connector
Overload Protection	electronic throughout 0° to 95° rotation
Operating Range Y	on/off, floating point
Input Impedance	100 k Ω
Angle of Rotation	max. 95°, adjustable with mechanical stop
Direction of Rotation (Motor)	reversible with built-in switch
Direction of Rotation (Fail-Safe)	reversible with switch
Position Indication	integrated into handle
Manual Override	external push button
Running Time (Motor)	150 sec constant, independent of load
Running Time (Fail-Safe)	35 sec
Bridge Time	2 sec delay before fail-safe activates
Pre-charging Time	5 to 20 seconds
Humidity	5 to 95% RH non condensing (EN 60730-1)
Ambient Temperature Range	-40°F to +176°F [-40°C to +80°C]
Storage Temperature Range	-22°F to +122°F [-30°C to +50°C]
Housing	NEMA 2, IP54, UL enclosure type 2
Housing Material	UL94-5VA
Agency Listings†	cULus acc. to UL60730-1A/-2-14, CAN/CSA E60730-1:02, CE acc. to 2004/108/EC and 2006/95/EC
Noise Level (Motor)	<45 dB (A)
Noise Level (Fail-Safe)	<45 dB (A)
Servicing	maintenance free
Quality Standard	ISO 9001
Weight	4 lb [1.8 kg]
Electric Frequency	50/60 Hz

†Rated Impulse Voltage 800V, Type of action 1.AA, Control Pollution Degree 3

Wiring Diagrams
INSTALLATION NOTES

-  Provide overload protection and disconnect as required.
-  Actuators may be connected in parallel. Power consumption and input impedance must be observed.
-  Actuators may be connected in parallel if not mechanically linked. Power consumption and input impedance must be observed.
-  Meets cULus requirements without the need of an electrical ground connection.

WARNING! LIVE ELECTRICAL COMPONENTS!
 During installation, testing, servicing and troubleshooting of this product, it may be necessary to work with live electrical components. Have a qualified licensed electrician or other individual who has been properly trained in handling live electrical components perform these tasks. Failure to follow all electrical safety precautions when exposed to live electrical components could result in death or serious injury.

